

PCT
09RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/787,494DATE: 03/28/2001
TIME: 18:37:45Input Set : A:\35932PCT.txt
Output Set: N:\CRF3\03282001\I787494.raw

3 <110> APPLICANT: ZONAGEN, INC.
 5 <120> TITLE OF INVENTION: HUMAN CHORIONIC GONADOTROPIN
 7 <130> FILE REFERENCE: 27779/35932
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/787,494
 C--> 10 <141> CURRENT FILING DATE: 2000-03-16
 12 <150> PRIOR APPLICATION NUMBER: 60/100,766
 13 <151> PRIOR FILING DATE: 1998-09-17
 15 <160> NUMBER OF SEQ ID NOS: 4
 17 <170> SOFTWARE: PatentIn Ver. 2.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 534
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
 24 <220> FEATURE:
 25 <221> NAME/KEY: CDS
 26 <222> LOCATION: (1)..(534)
 28 <400> SEQUENCE: 1

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30	Met	Thr	Met	Ile	Thr	Asp	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	
31	1				5					10					15		
33	tgg	gaa	aac	ccg	ggc	tgc	aga	gat	ctc	aag	gag	ccg	ctt	cgg	cca	cgg	96
34	Trp	Glu	Asn	Pro	Gly	Cys	Arg	Asp	Leu	Lys	Glu	Pro	Leu	Arg	Pro	Arg	
35				20				25					30				
37	tgc	cgc	ccc	atc	aat	gcc	acc	ctg	gct	gtg	gag	aag	gag	ggc	tgc	ccc	144
38	Cys	Arg	Pro	Ile	Asn	Ala	Thr	Leu	Ala	Val	Glu	Lys	Glu	Gly	Cys	Pro	
39			35				40					45					
41	gtg	tgc	atc	acc	gtc	aac	acc	acc	atc	tgt	gcc	ggc	tac	tgc	ccc	acc	192
42	Val	Cys	Ile	Thr	Val	Asn	Thr	Thr	Ile	Cys	Ala	Gly	Tyr	Cys	Pro	Thr	
43		50				55					60						
45	atg	acc	cgc	gtg	ctg	cag	ggg	gtc	ctg	ccg	gcc	ctg	cct	cag	gtg	gtg	240
46	Met	Thr	Arg	Val	Leu	Gln	Gly	Val	Leu	Pro	Ala	Leu	Pro	Gln	Val	Val	
47	65				70				75					80			
49	tgc	aac	tac	cgc	gat	gtg	cgc	ttc	gag	tcc	atc	cgg	ctc	cct	ggc	tgc	288
50	Cys	Asn	Tyr	Arg	Asp	Val	Arg	Phe	Glu	Ser	Ile	Arg	Leu	Pro	Gly	Cys	
51				85				90				95					
53	ccg	cgc	ggc	gtg	aac	ccc	gtg	gtc	tcc	tac	gcc	gtg	gct	ctc	agc	tgt	336
54	Pro	Arg	Gly	Val	Asn	Pro	Val	Val	Ser	Tyr	Ala	Val	Ala	Leu	Ser	Cys	
55			100				105					110					
57	caa	tgt	gca	ctc	tgc	cgc	cgc	agc	acc	act	gac	tgc	ggg	ggt	ccc	aag	384
58	Gln	Cys	Ala	Leu	Cys	Arg	Arg	Ser	Thr	Thr	Asp	Cys	Gly	Gly	Pro	Lys	
59		115				120					125						
61	gac	cac	ccc	ttg	acc	tgt	gat	gac	ccc	cgc	ttc	cag	gac	tcc	tct	tcc	432
62	Asp	His	Pro	Leu	Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Asp	Ser	Ser	Ser	
63		130				135					140						
65	tca	aag	gcc	cct	ccc	ccc	agc	ctt	cca	agc	cca	tcc	cga	ctc	ccg	ggg	480
66	Ser	Lys	Ala	Pro	Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	
67	145				150				155					160			

ENTERED

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69 ccc tcg gac acc ccg atc ctc cca caa act agt cac cac cat cac cac 528
70 Pro Ser Asp Thr Pro Ile Leu Pro Gln Thr Ser His His His His His
71          165          170          175
73 cat taa ( 534
74 His
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78 <211> LENGTH: 177
79 <212> TYPE: PRT
80 <213> ORGANISM: Homo sapiens
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86 Trp Glu Asn Pro Gly Cys Arg Asp Leu Lys Glu Pro Leu Arg Pro Arg
87 20 25 30
89 Cys Arg Pro Ile Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro
90 35 40 45
92 Val Cys Ile Thr Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr
93 50 55 60
95 Met Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val
96 65 70 75 80
98 Cys Asn Tyr Arg Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys
99 85 90 95
101 Pro Arg Gly Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys
102 100 105 110
104 Gln Cys Ala Leu Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys
105 115 120 125
107 Asp His Pro Leu Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser
108 130 135 140
110 Ser Lys Ala Pro Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly
111 145 150 155 160
113 Pro Ser Asp Thr Pro Ile Leu Pro Gln Thr Ser His His His His His
114 165 170 175
116 His
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120 <211> LENGTH: 773
121 <212> TYPE: DNA
122 <213> ORGANISM: Homo sapiens
124 <220> FEATURE:
125 <221> NAME/KEY: CDS
126 <222> LOCATION: (7)..(765)
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131 1 5 10
133 tcc tcc gca tta gct gct cca gtc aac act aca aca gaa gat gaa acg 96
134 Ser Ser Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr
135 15 20 25 30
137 gca caa att ccg gct gaa gct gtc atc ggt tac tca gat tta gaa ggg 144
138 Ala Gln Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly

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139          35          40          45
141 gat ttc gat gtt gct gtt ttg cca ttt tcc aac agc aca aat aac ggg 192
142 Asp Phe Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly
143          50          55          60
145 tta ttg ttt ata aat act act att gcc agc att gct gct aaa gaa gaa 240
146 Leu Leu Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu
147          65          70          75
149 ggg gta tct ctc gag aaa aga gag gct gaa gct tac gta gaa ttc gac 288
150 Gly Val Ser Leu Glu Lys Arg Glu Ala Glu Ala Tyr Val Glu Phe Asp
151          80          85          90
153 ccg ggc tgc aga gat ctc aag gag ccg ctt cgg cca cgg tgc cgc ccc 336
154 Pro Gly Cys Arg Asp Leu Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro
155 95          100          105          110
157 atc aat gcc acc ctg gct gtg gag aag gag ggc tgc ccc gtg tgc atc 384
158 Ile Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile
159          115          120          125
161 acc gtc aac acc acc atc tgt gcc ggc tac tgc ccc acc atg acc cgc 432
162 Thr Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Thr Arg
163          130          135          140
165 gtg ctg cag ggg gtc ctg ccg gcc ctg cct cag gtg gtg tgc aac tac 480
166 Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr
167          145          150          155
169 cgc gat gtg cgc ttc gag tcc atc cgg ctc cct ggc tgc ccg cgc ggc 528
170 Arg Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly
171          160          165          170
173 gtg aac ccc gtg gtc tcc tac gcc gtg gct ctc agc tgt caa tgt gca 576
174 Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala
175 175          180          185          190
177 ctc tgc cgc cgc agc acc act gac tgc ggg ggt ccc aag gac cac ccc 624
178 Leu Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro
179          195          200          205
181 ttg acc tgt gat gac ccc cgc ttc cag gac tcc tct tcc tca aag gcc 672
182 Leu Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala
183          210          215          220
185 cct ccc ccc agc ctt cca agc cca tcc cga ctc ccg ggg ccc tcg gac 720
186 Pro Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp
187          225          230          235
189 acc ccg atc ctc cca caa act agt cac cac cat cac cac cat taa 765
190 Thr Pro Ile Leu Pro Gln Thr Ser His His His His His His
191          240          245          250
193 taggatcc 773
196 <210> SEQ ID NO: 4
197 <211> LENGTH: 252
198 <212> TYPE: PRT
199 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 4
202 Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
203 1 5 10 15
205 Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln

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206          20          25          30
208 Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe
209          35          40          45
211 Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
212          50          55          60
214 Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
215          65          70          75          80
217 Ser Leu Glu Lys Arg Glu Ala Glu Ala Tyr Val Glu Phe Asp Pro Gly
218          85          90          95
220 Cys Arg Asp Leu Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn
221          100          105          110
224 Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr Val
225          115          120          125
227 Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Thr Arg Val Leu
228          130          135          140
230 Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg Asp
231          145          150          155          160
233 Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val Asn
234          165          170          175
236 Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu Cys
237          180          185          190
239 Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu Thr
240          195          200          205
242 Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro Pro
243          210          215          220
245 Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr Pro
246          225          230          235          240
248 Ile Leu Pro Gln Thr Ser His His His His His His
249          245          250

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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/787,494
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L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

FOR "HOLD" HOLD